

What is claimed is:

1. A reflective type LCD device comprising:

a reflector plate with a irregularity pattern;

5 a front light having an optical guide plate in which prism grooves are arranged in parallel to each other in an arrangement direction;

the irregularity pattern being formed by a combination of blocks arranged in an array;

10 each of the blocks including a basic irregularity pattern for one pixel or one element thereof, and (N - 1) modified basic irregularity pattern or patterns each formed by modifying the basic irregularity pattern, where N is a positive integer ($N \geq 2$);

15 the basic irregularity pattern and the (N - 1) modified basic irregularity pattern or patterns in each of the blocks being arranged in a direction perpendicular to the arrangement direction;

the basic irregularity pattern being continuous at
20 either end thereof in a same direction as the arrangement direction;

the basic irregularity pattern being divided in a same direction as the arrangement direction, thereby forming N sub-patterns; and

each of the $(N - 1)$ modified basic irregularity pattern or patterns being formed by the N sub-patterns circularly shifted one by one.

5 2. The device according to claim 1, wherein a combination of the basic irregularity pattern and the $(N - 1)$ modified basic irregularity pattern or patterns in each of the blocks is for M pixel or pixels, where M is a positive integer ($M \leq N$).

10 3. A semi-transmissive type LCD device comprising:

a reflector plate with a irregularity pattern and optical penetration areas;

a back light having an optical guide plate in which prism grooves are arranged in parallel to each other in an
15 arrangement direction;

the irregularity pattern being formed by a combination of blocks arranged in an array;

each of the blocks including a basic irregularity pattern for one pixel or one element thereof, and $(N - 1)$
20 modified basic irregularity pattern or patterns each formed by modifying the basic irregularity pattern, where N is a positive integer ($N \geq 2$);

the basic irregularity pattern and the $(N - 1)$ modified

basic irregularity pattern or patterns in each of the blocks being arranged in a direction perpendicular to the arrangement direction;

the basic irregularity pattern being continuous at
5 either end thereof in a same direction as the arrangement direction and having an optical penetration area;

the basic irregularity pattern being divided in a same direction as the arrangement direction, thereby forming N sub-patterns; and

10 each of the (N - 1) modified basic irregularity pattern or patterns being formed by the N sub-patterns circularly shifted one by one.

4. The device according to claim 3, wherein a combination of
15 the basic irregularity pattern and the (N - 1) modified basic irregularity pattern or patterns in each of the blocks is for M pixel or pixels, where M is a positive integer ($M \leq N$).

5. A method of fabricating a reflective type LCD device, the
20 device comprising a reflector plate with a irregularity pattern, and a front light having an optical guide plate in which prism grooves are arranged in parallel to each other in an arrangement direction;

the method comprising:

forming a basic irregularity pattern for one pixel or one element thereof in such a way as to be continuous at either end thereof in a same direction as an arrangement direction of prism grooves;

5 dividing the basic irregularity pattern in a same direction as the arrangement direction, thereby forming N sub-patterns, where N is a positive integer ($N \geq 2$);

 circularly shifting the N sub-patterns one by one, thereby forming (N - 1) modified basic irregularity pattern or
10 patterns;

 arranging the basic irregularity pattern and the (N - 1) modified basic irregularity pattern or patterns in a direction perpendicular to the arrangement direction, thereby forming a block; and

15 arranging a plurality of the blocks in an array, thereby forming an irregularity pattern of a reflector plate.

6. The method according to claim 5, wherein a combination of the basic irregularity pattern and the (N - 1) modified basic
20 irregularity pattern or patterns in each of the blocks is for M pixel or pixels, where M is a positive integer ($M \leq N$).

7. A method of fabricating a semi-transmissive type LCD device,

the device comprising a reflector plate with a irregularity pattern and optical penetration areas, and a back light having an optical guide plate in which prism grooves are arranged in parallel to each other in an arrangement direction;

5 the method comprising:

 forming a basic irregularity pattern for one pixel or one element thereof in such a way as to be continuous at either end thereof in a same direction as an arrangement direction of prism grooves;

10 dividing the basic irregularity pattern in a same direction as the arrangement direction, thereby forming N sub-patterns, where N is a positive integer ($N \geq 2$);

 circularly shifting the N sub-patterns one by one, thereby forming (N - 1) modified basic irregularity pattern or
15 patterns;

 arranging the basic irregularity pattern and the (N - 1) modified basic irregularity pattern or patterns in a direction perpendicular to the arrangement direction, thereby forming a block; and

20 arranging a plurality of the blocks in an array, thereby forming an irregularity pattern of a reflector plate.

8. The method according to claim 7, wherein a combination of the basic irregularity pattern and the (N - 1) modified basic

-48-